BLUE ROCK
ENVIRONMENTAL, INC.

Ms. Kasey Ashley
NCRWQCB
5550 Skylane Blvd, Ste A
Santa Rosa, CA 95403

August 8, 2006

Soil Stockpile Leachability Study (McKinelyville Site)
Beaver Lumber Company (former)
1220 Fifth Street
Arcata, California
Case No. 1NHU001

Dear Ms. Ashley,

This report presents the results of the soil leachability study performed on the soil stockpiles located at Grange Ave, McKinleyville, Humboldt County, California (site) (Figure 2), and was prepared for Mr. Bradford C. Floyd by Blue Rock Environmental, Inc. (Blue Rock).

The leachability study was approved by the North Coast Regional Water Quality Control Board (NCRWQCB) letter dated July 18, 2006.

A detailed background of site conditions can be found in Blue Rock's *Closure Summary* dated April 7, 2006.

Soil Leachability Study

Purpose
The purpose of the study is to evaluate potential for leaching of motor oil contaminants detected in the Beaver Lumber soil currently stockpiled at the site. Previous soil sampling efforts determined that motor oil contaminant concentrations in the stockpiled soil range from 73 to 910 mg/kg (Figure 1). Blue Rock performed the leachability study by sampling 10 percent of the previous locations sampled on Figure 1.

Soil Sampling Activities
Discrete soil samples were collected at a depth of approximately 3 to 4 feet into the stockpiled soil using a clean shovel at nine locations shown in Figure 2.

Soil samples were then collected in appropriate containers, labeled, documented on a chain-of-custody form, and placed on ice in a cooler for transport to the project laboratory.

A California DHS-certified laboratory analyzed the soil samples for the following:

- TPHmo using EPA Method 3550/8015M (with silica-gel clean-up)
- California Waste Extraction Test (WET/DI) (neutral pH)
- TPHmo using EPA Method 3510/8015M (with silica-gel clean-up) on the WET/DI extractant

Between sampling locations, excavating tools and sampling devices were cleaned in an Alconox® wash followed by double rinse in clean tap water to prevent cross-contamination.

Soil Leachability Results

All soil samples were successfully sent under chain-of-custody to the project laboratory. TPHmo concentrations were detected in the soil samples ranging from 130 to 600 mg/kg. Each sample was subjected to a Waste Extraction Test using deionized water. The WET(DI) extractant from each sample was analyzed for TPHmo with silica gel cleanup. All extractants analyzed were below the water quality cleanup goal of 175 µg/L, and all but one were below the method detection limit of 100 µg/L. Soil sample S3-3-L contained 150 mg/kg TPHmo and its extractant contained 120 µg/L TPHmo, which would not appear pose a threat to water quality.

Soil sample analytical results are listed in Tables 1 & 2, and displayed in Figures 1 & 2. Kiff analytical reports are attached.

Recommendations

Blue Rock recommends the responsible party explore onsite disposal (reuse) options for the future disposition of the stockpiled soil.

Certification

This report was prepared under the supervision of a California Professional Geologist at Blue Rock. All statements, conclusions, and recommendations are based upon published results from past consultants, field observations by Blue Rock, and analyses performed by a state-certified laboratory as they relate to the time, location, and depth of points sampled by Blue Rock. Interpretation of data, including spatial distribution and temporal trends, are based on commonly used geologic and scientific principles. It is possible that interpretations, conclusions, and recommendations presented in this report may change, as additional data become available and/or regulations change.

Information and interpretation presented herein are for the sole use of the client and regulating agency. The information and interpretation contained in this document should not be relied upon by a third party.

The service performed by Blue Rock has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

If you have any questions regarding this project, please contact us at (707) 441-1934.

Sincerely,
Blue Rock Environmental, Inc.

Prepared by:

Scott Ferriman
Project Scientist

Reviewed by:

Brian Gwinn, PG
Principal Geologist

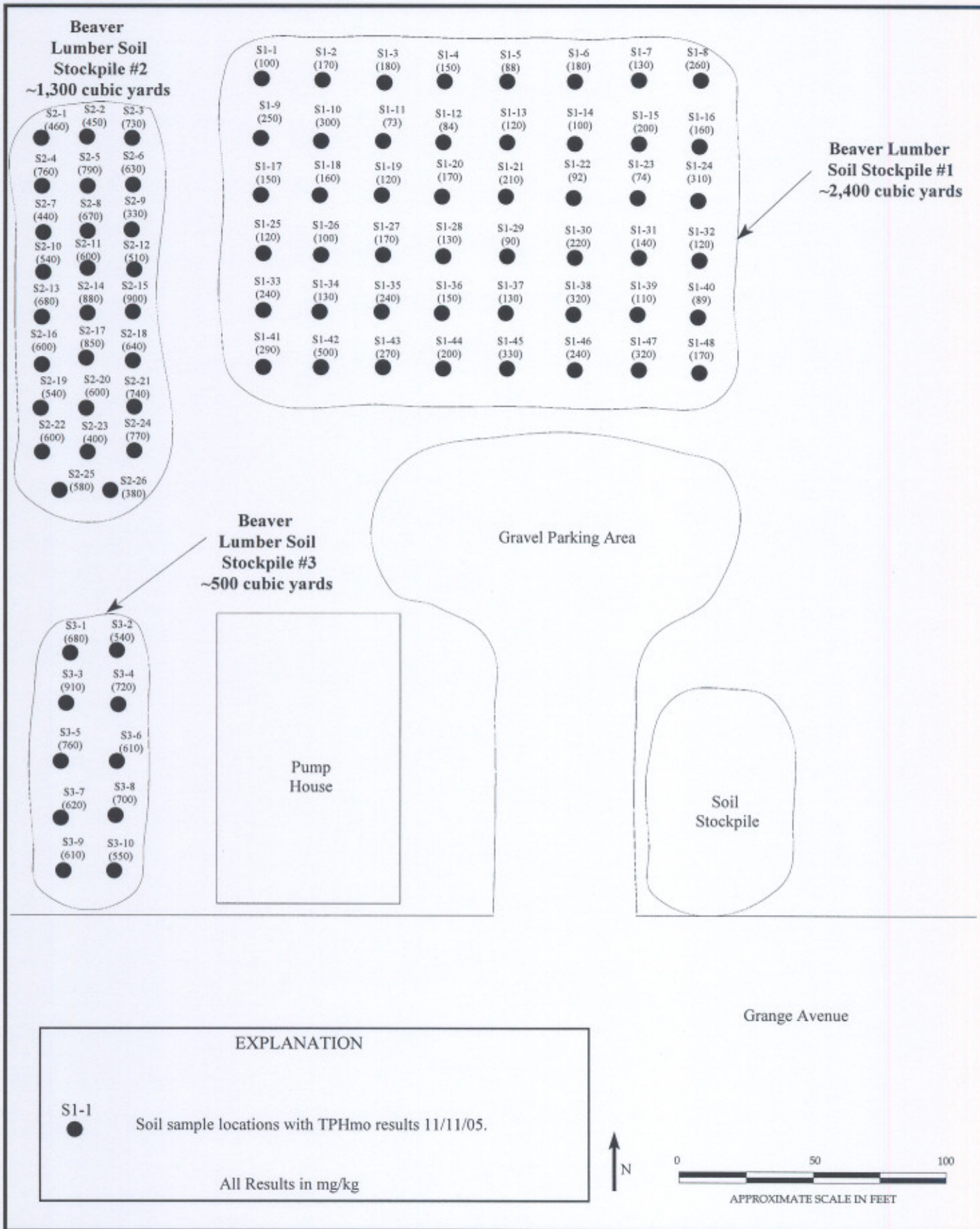
Attachments:

Table 1: Soil Stockpile Analytical Results
Table 2: Soil Stockpile Analytical Results (Metals)

Figure 1: TPHmo Distribution Map
Figure 2: Soil Leachability Study Map

Distribution:

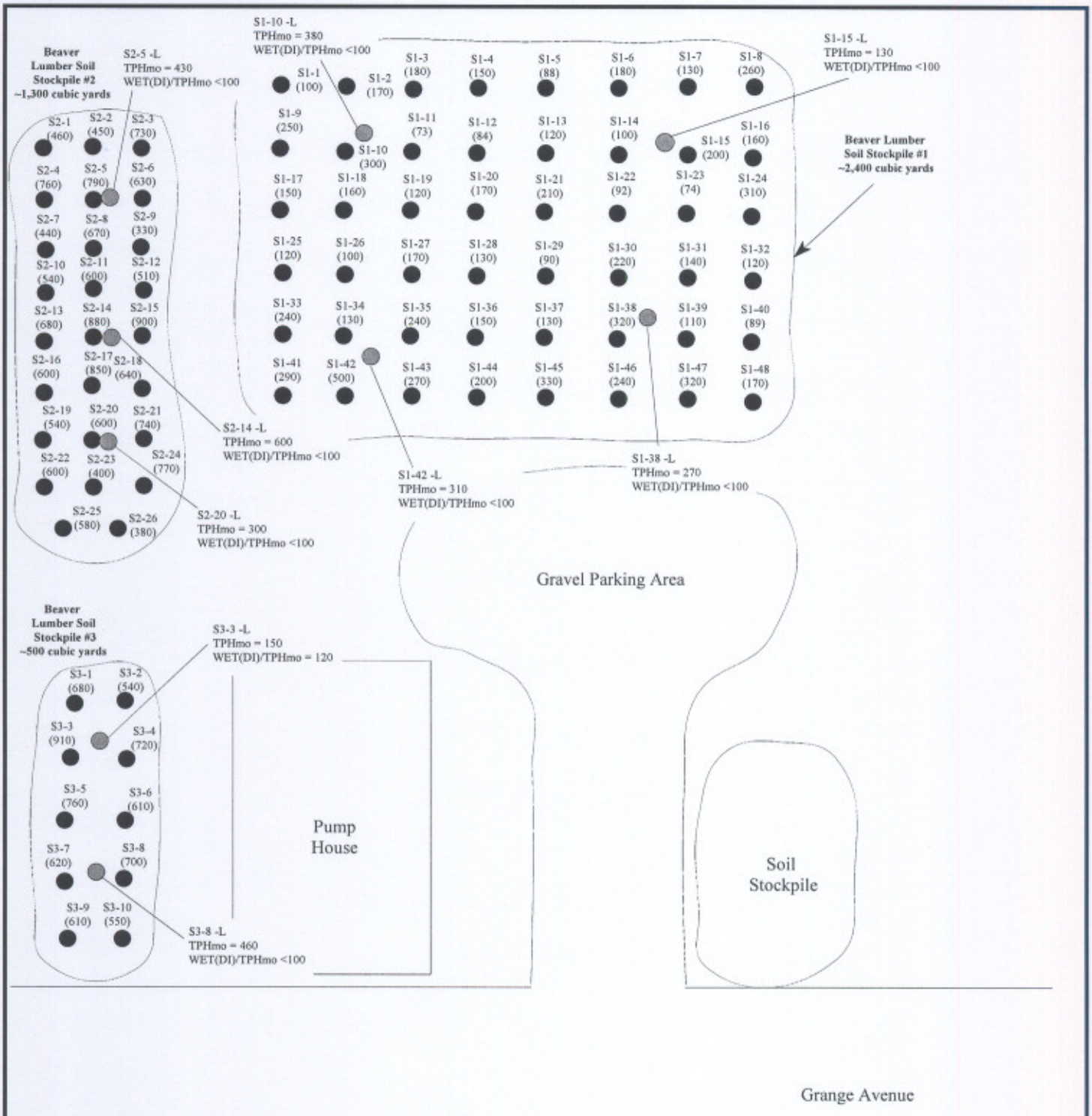
Mr. Bradford C. Floyd
819 Seventh Street
Eureka, CA 95501



TPHmo Distribution Map
Soil Stockpiles from Beaver Lumber Site
Grange Avenue
McKinleyville, California

BLUE ROCK ENVIRONMENTAL, INC.

Project No.	Report Date	Figure
NC-1	8/06	1



Soil Leachability Study Map

Soil Stockpiles from Beaver Lumber Site
Grange Avenue
McKinleyville, California

BLUE ROCK ENVIRONMENTAL, INC.

Project No.	Report Date	Figure
NC-1	8/06	2

Table 1
SOIL STOCKPILE ANALYTICAL RESULTS
Former Beaver Lumber Company
1220 Fifth St., Arcata, California
Blue Rock Project No. NC-1

Sample ID	Sample Description	Sample Date	O and G (mg/kg)	TPHmo (mg/kg)	TPHmo* (mg/kg)	TPHd (mg/kg)	TPHd* (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	PCP (mg/kg)	TCP (mg/kg)	WET(DI)/TPHmo (µg/L)
1	sand, gravel, silty clay	9/22/98	--	--	--	<1	--	--	--	--	--	--	--	--	--	--
2	sand, gravel, silty clay	9/22/98	--	--	--	3.2	--	--	--	--	--	--	--	--	--	--
3	sand, gravel, silty clay	9/22/98	180	--	--	5.5	--	--	--	--	--	--	--	<1	<1	--
4	sand, gravel, silty clay	9/22/98	--	--	--	3.7	--	--	--	--	--	--	--	--	--	--
5	sand, gravel, silty clay	10/13/98	--	63	47	6.7	4.7	<1	<0.005	0.012	<0.005	<0.01	<0.05	<1	<1	--
6	sand, gravel, silty clay	10/13/98	--	110	71	16	12	<1	<0.005	0.025	<0.005	<0.01	<0.05	--	--	--
7	sand,gravel,clay, woodwaste	10/13/98	--	710	600	27	26	<1	<0.005	0.02	<0.005	<0.01	<0.05	<1	<1	--
8	sand, gravel, silty clay	10/13/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	sand, gravel, silty clay	10/13/98	--	53	50	5.2	4.6	<1	<0.005	0.0087	<0.005	<0.01	<0.05	<1	<1	--
10	silty clay	10/13/98	--	14	13	<1	<1	<1	<0.005	<0.005	<0.005	<0.01	<0.05	<1	<1	--
#1	sand, gravel, silty clay	8/21/00	--	100	--	5.7	--	--	--	--	--	--	--	--	--	--
#2	sand, gravel, silty clay	8/21/00	--	390	--	21	--	--	--	--	--	--	--	--	--	--
S1-1	sand, gravel, silty clay	11/11/05	--	--	100	--	52	--	--	--	--	--	--	--	--	--
S1-2	sand, gravel, silty clay	11/11/05	--	--	170	--	43	--	--	--	--	--	--	--	--	--
S1-3	sand, gravel, silty clay	11/11/05	--	--	180	--	84	--	--	--	--	--	--	--	--	--
S1-4	sand, gravel, silty clay	11/11/05	--	--	150	--	64	--	--	--	--	--	--	--	--	--
S1-5	sand, gravel, silty clay	11/11/05	--	--	88	--	52	--	--	--	--	--	--	--	--	--
S1-6	sand, gravel, silty clay	11/11/05	--	--	180	--	72	--	--	--	--	--	--	--	--	--
S1-7	sand, gravel, silty clay	11/11/05	--	--	130	--	60	--	--	--	--	--	--	--	--	--
S1-8	sand, gravel, silty clay	11/11/05	--	--	260	--	67	--	--	--	--	--	--	--	--	--
S1-9	sand, gravel, silty clay	11/11/05	--	--	250	--	110	--	--	--	--	--	--	--	--	--
S1-10	sand, gravel, silty clay	11/11/05	--	--	300	--	140	--	--	--	--	--	--	--	<1	--
S1-11	sand, gravel, silty clay	11/11/05	--	--	73	--	41	--	--	--	--	--	--	--	--	--
S1-12	sand, gravel, silty clay	11/11/05	--	--	84	--	46	--	--	--	--	--	--	--	--	--
S1-13	sand, gravel, silty clay	11/11/05	--	--	120	--	55	--	--	--	--	--	--	--	--	--
S1-14	sand, gravel, silty clay	11/11/05	--	--	100	--	30	--	--	--	--	--	--	--	--	--
S1-15	sand, gravel, silty clay	11/11/05	--	--	200	--	47	--	--	--	--	--	--	--	<1	--
S1-16	sand, gravel, silty clay	11/11/05	--	--	160	--	68	--	--	--	--	--	--	--	--	--
S1-17	sand, gravel, silty clay	11/11/05	--	--	150	--	64	--	--	--	--	--	--	--	--	--
S1-18	sand, gravel, silty clay	11/11/05	--	--	160	--	38	--	--	--	--	--	--	--	--	--
S1-19	sand, gravel, silty clay	11/11/05	--	--	120	--	33	--	--	--	--	--	--	--	--	--
S1-20	sand, gravel, silty clay	11/11/05	--	--	170	--	73	--	--	--	--	--	--	--	--	--
S1-21	sand, gravel, silty clay	11/11/05	--	--	210	--	54	--	--	--	--	--	--	--	<1	--
S1-22	sand, gravel, silty clay	11/11/05	--	--	92	--	28	--	--	--	--	--	--	--	--	--
S1-23	sand, gravel, silty clay	11/11/05	--	--	74	--	38	--	--	--	--	--	--	--	--	--
S1-24	sand, gravel, silty clay	11/11/05	--	--	310	--	63	--	--	--	--	--	--	--	--	--

Table 1
SOIL STOCKPILE ANALYTICAL RESULTS
Former Beaver Lumber Company
1220 Fifth St., Arcata, California
Blue Rock Project No. NC-1

Sample ID	Sample Description	Sample Date	O and G (mg/kg)	TPHmo (mg/kg)	TPHmo* (mg/kg)	TPHd (mg/kg)	TPHd* (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	PCP (mg/kg)	TCP (mg/kg)	WET(DI)/TPHmo (µg/L)
S1-25	sand, gravel, silty clay	11/11/05	--	--	120	--	51	--	--	--	--	--	--	--	--	--
S1-26	sand, gravel, silty clay	11/11/05	--	--	100	--	50	--	--	--	--	--	--	--	--	--
S1-27	sand, gravel, silty clay	11/11/05	--	--	170	--	44	--	--	--	--	--	--	--	--	--
S1-28	sand, gravel, silty clay	11/11/05	--	--	130	--	57	--	--	--	--	--	--	--	--	--
S1-29	sand, gravel, silty clay	11/11/05	--	--	90	--	63	--	--	--	--	--	--	--	--	--
S1-30	sand, gravel, silty clay	11/11/05	--	--	220	--	51	--	--	--	--	--	--	--	--	--
S1-31	sand, gravel, silty clay	11/11/05	--	--	140	--	60	--	--	--	--	--	--	--	--	--
S1-32	sand, gravel, silty clay	11/11/05	--	--	120	--	34	--	--	--	--	--	--	--	--	--
S1-33	sand, gravel, silty clay	11/11/05	--	--	240	--	100	--	--	--	--	--	--	--	--	--
S1-34	sand, gravel, silty clay	11/11/05	--	--	130	--	60	--	--	--	--	--	--	--	<1	--
S1-35	sand, gravel, silty clay	11/11/05	--	--	240	--	97	--	--	--	--	--	--	--	--	--
S1-36	sand, gravel, silty clay	11/11/05	--	--	150	--	38	--	--	--	--	--	--	--	--	--
S1-37	sand, gravel, silty clay	11/11/05	--	--	130	--	71	--	--	--	--	--	--	--	--	--
S1-38	sand, gravel, silty clay	11/11/05	--	--	320	--	140	--	--	--	--	--	--	--	--	--
S1-39	sand, gravel, silty clay	11/11/05	--	--	110	--	58	--	--	--	--	--	--	--	<1	--
S1-40	sand, gravel, silty clay	11/11/05	--	--	89	--	42	--	--	--	--	--	--	--	--	--
S1-41	sand, gravel, silty clay	11/11/05	--	--	290	--	110	--	--	--	--	--	--	--	--	--
S1-42	sand, gravel, silty clay	11/11/05	--	--	500	--	100	--	--	--	--	--	--	--	--	--
S1-43	sand, gravel, silty clay	11/11/05	--	--	270	--	53	--	--	--	--	--	--	--	--	--
S1-44	sand, gravel, silty clay	11/11/05	--	--	200	--	76	--	--	--	--	--	--	--	--	--
S1-45	sand, gravel, silty clay	11/11/05	--	--	330	--	96	--	--	--	--	--	--	--	--	--
S1-46	sand, gravel, silty clay	11/11/05	--	--	240	--	72	--	--	--	--	--	--	--	--	--
S1-47	sand, gravel, silty clay	11/11/05	--	--	320	--	98	--	--	--	--	--	--	--	--	--
S1-48	sand, gravel, silty clay	11/11/05	--	--	170	--	44	--	--	--	--	--	--	--	--	--
S2-1	sand, gravel, silty clay	11/11/05	--	--	460	--	180	--	--	--	--	--	--	--	--	--
S2-2	sand, gravel, silty clay	11/11/05	--	--	450	--	180	--	--	--	--	--	--	--	--	--
S2-3	sand, gravel, silty clay	11/11/05	--	--	730	--	310	--	--	--	--	--	--	--	--	--
S2-4	sand, gravel, silty clay	11/11/05	--	--	760	--	280	--	--	--	--	--	--	--	--	--
S2-5	sand, gravel, silty clay	11/11/05	--	--	790	--	290	--	--	--	--	--	--	--	--	--
S2-6	sand, gravel, silty clay	11/11/05	--	--	630	--	260	--	--	--	--	--	--	--	--	--
S2-7	sand, gravel, silty clay	11/11/05	--	--	440	--	170	--	--	--	--	--	--	--	--	--
S2-8	sand, gravel, silty clay	11/11/05	--	--	670	--	280	--	--	--	--	--	--	--	<1	--
S2-9	sand, gravel, silty clay	11/11/05	--	--	330	--	140	--	--	--	--	--	--	--	--	--
S2-10	sand, gravel, silty clay	11/11/05	--	--	540	--	210	--	--	--	--	--	--	--	--	--
S2-11	sand, gravel, silty clay	11/11/05	--	--	600	--	240	--	--	--	--	--	--	--	--	--
S2-12	sand, gravel, silty clay	11/11/05	--	--	510	--	98	--	--	--	--	--	--	--	--	--
S2-13	sand, gravel, silty clay	11/11/05	--	--	680	--	150	--	--	--	--	--	--	--	--	--
S2-14	sand, gravel, silty clay	11/11/05	--	--	880	--	260	--	--	--	--	--	--	--	--	--

Table 1
SOIL STOCKPILE ANALYTICAL RESULTS
Former Beaver Lumber Company
1220 Fifth St., Arcata, California
Blue Rock Project No. NC-1

Sample ID	Sample Description	Sample Date	O and G (mg/kg)	TPHmo (mg/kg)	TPHmo* (mg/kg)	TPHd (mg/kg)	TPHd* (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	PCP (mg/kg)	TCP (mg/kg)	WET(DI)/TPHmo (µg/L)
S2-15	sand, gravel, silty clay	11/11/05	--	--	900	--	190	--	--	--	--	--	--	--	--	--
S2-16	sand, gravel, silty clay	11/11/05	--	--	600	--	240	--	--	--	--	--	--	--	--	--
S2-17	sand, gravel, silty clay	11/11/05	--	--	850	--	290	--	--	--	--	--	--	--	--	--
S2-18	sand, gravel, silty clay	11/11/05	--	--	640	--	250	--	--	--	--	--	--	--	--	--
S2-19	sand, gravel, silty clay	11/11/05	--	--	540	--	210	--	--	--	--	--	--	--	--	--
S2-20	sand, gravel, silty clay	11/11/05	--	--	600	--	250	--	--	--	--	--	--	--	<1	--
S2-21	sand, gravel, silty clay	11/11/05	--	--	740	--	140	--	--	--	--	--	--	--	--	--
S2-22	sand, gravel, silty clay	11/11/05	--	--	600	--	200	--	--	--	--	--	--	--	--	--
S2-23	sand, gravel, silty clay	11/11/05	--	--	400	--	160	--	--	--	--	--	--	--	--	--
S2-24	sand, gravel, silty clay	11/11/05	--	--	770	--	300	--	--	--	--	--	--	--	--	--
S2-25	sand, gravel, silty clay	11/11/05	--	--	580	--	210	--	--	--	--	--	--	--	--	--
S2-26	sand, gravel, silty clay	11/11/05	--	--	380	--	200	--	--	--	--	--	--	--	--	--
S3-1	sand, gravel, silty clay	11/11/05	--	--	680	--	250	--	--	--	--	--	--	--	--	--
S3-2	sand, gravel, silty clay	11/11/05	--	--	540	--	190	--	--	--	--	--	--	--	--	--
S3-3	sand, gravel, silty clay	11/11/05	--	--	910	--	330	--	--	--	--	--	--	--	--	--
S3-4	sand, gravel, silty clay	11/11/05	--	--	720	--	270	--	--	--	--	--	--	--	--	--
S3-5	sand, gravel, silty clay	11/11/05	--	--	760	--	290	--	--	--	--	--	--	--	--	--
S3-6	sand, gravel, silty clay	11/11/05	--	--	610	--	220	--	--	--	--	--	--	--	<1	--
S3-7	sand, gravel, silty clay	11/11/05	--	--	620	--	220	--	--	--	--	--	--	--	--	--
S3-8	sand, gravel, silty clay	11/11/05	--	--	700	--	240	--	--	--	--	--	--	--	--	--
S3-9	sand, gravel, silty clay	11/11/05	--	--	610	--	200	--	--	--	--	--	--	--	--	--
S3-10	sand, gravel, silty clay	11/11/05	--	--	550	--	210	--	--	--	--	--	--	--	--	--

Table 1
SOIL STOCKPILE ANALYTICAL RESULTS
Former Beaver Lumber Company
1220 Fifth St., Arcata, California
Blue Rock Project No. NC-1

Sample ID	Sample Description	Sample Date	O and G (mg/kg)	TPHmo (mg/kg)	TPHmo* (mg/kg)	TPHd (mg/kg)	TPHd* (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	PCP (mg/kg)	TCP (mg/kg)	WET(DI)/TPHmo (µg/L)
Soil Leachability Samples																
S1-10-L	sand, gravel, silty clay	7/26/06	--	--	**380**	--	--	--	--	--	--	--	--	--	--	<100
S1-15-L	sand, gravel, silty clay	7/26/06	--	--	**130**	--	--	--	--	--	--	--	--	--	--	<100
S1-38-L	sand, gravel, silty clay	7/26/06	--	--	**270**	--	--	--	--	--	--	--	--	--	--	<100
S1-42-L	sand, gravel, silty clay	7/26/06	--	--	**310**	--	--	--	--	--	--	--	--	--	--	<100
S2-5-L	sand, gravel, silty clay	7/26/06	--	--	**430**	--	--	--	--	--	--	--	--	--	--	<100
S2-14-L	sand, gravel, silty clay	7/26/06	--	--	**600**	--	--	--	--	--	--	--	--	--	--	<100
S2-20-L	sand, gravel, silty clay	7/26/06	--	--	**300**	--	--	--	--	--	--	--	--	--	--	<100
S3-3-L	sand, gravel, silty clay	7/26/06	--	--	**150**	--	--	--	--	--	--	--	--	--	--	**120**
S3-8-L	sand, gravel, silty clay	7/26/06	--	--	**460**	--	--	--	--	--	--	--	--	--	--	<100

Notes
mg/kg = milligrams per kilogram
<###: Not detected above the method detection limit as shown
O and G: Total hydrocarbon oil and grease by Standard Method 5520 EF
TPHmo: Total petroleum hydrocarbons as motor oil by EPA Method 3550/8015M
TPHmo*: Total petroleum hydrocarbons as motor oil with silica gel cleanup by EPA Method 3550/8015M
TPHd: Total petroleum hydrocarbons as diesel by EPA Method 3550/8015M
TPHd*: Total petroleum hydrocarbons as diesel with silica gel cleanup by EPA Method 3550/8015M
TPHg: Total petroleum hydrocarbons as gasoline by EPA Method 5030/8015M
BTEX: Benzene, toluene, ethylbenzene, total xylenes by EPA Method 8020
MTBE: Methyl tertiary butyl ether by EPA 8020
PCP: Pentachlorophenol by Canadian pulp method
TCP: Tetrachlorophenol by Canadian Pulp Method
WET(DI)/TPHmo*: Waste Extraction Test using deionized water as an extractant. The extractant was analyzed for Total petroleum hydrocarbons as motor oil with silica gel cleanup by EPA Method 3510/8015M
"--" Not analyzed, available or applicable

Table 2
SOIL STOCKPILE ANALYTICAL RESULTS (METALS)
Former Beaver Lumber Company
1220 Fifth St., Arcata, California
Blue Rock Project No. NC-1

Sample ID	Sample Description	Sample Date	Sb (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Co (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Mo (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Ag (mg/kg)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
1	sand, gravel, silty clay	9/22/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	sand, gravel, silty clay	9/22/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	sand, gravel, silty clay	9/22/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	sand, gravel, silty clay	9/22/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	sand, gravel, silty clay	10/13/98	ND	ND	**140**	ND	ND	**62**	**11**	**24**	ND	ND	ND	**66**	ND	ND	ND	**39**	**63**
6	sand, gravel, silty clay	10/13/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	sand,gravel,clay, woodwaste	10/13/98	ND	ND	**170**	ND	ND	**42**	ND	**25**	ND	ND	ND	**50**	ND	ND	ND	**35**	**54**
8	sand, gravel, silty clay	10/13/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	sand, gravel, silty clay	10/13/98	ND	ND	**120**	ND	ND	**57**	**11**	**22**	ND	ND	ND	**69**	ND	ND	ND	**37**	**65**
10	silty clay	10/13/98	ND	ND	**170**	ND	ND	**79**	**14**	**27**	ND	ND	ND	**92**	ND	ND	ND	**42**	**71**

Notes
mg/kg = milligrams per kilogram
ND: Not detected above the method detection limit
Sb: Antimony by EPA Method 7000 series
As: Arsenic by EPA Method 7000 series
Ba: Barium by EPA Method 7000 series
Be: Beryllium by EPA Method 7000 series
Cd: Cadmium by EPA Method 7000 series
Cr: Total Chromium by EPA Method 7000 series
Co: Cobalt by EPA Method 7000 series
Cu: Copper by EPA Method 7000 series
Pb: Lead by EPA Method 7000 series
Hg: Mercury by EPA Method 7000 series
Mo: Molybdenum by EPA Method 7000 series
Ni: Nickel by EPA Method 7000 series
Se: Selenium by EPA Method 7000 series
Ag: Silver by EPA Method 7000 series
Tl: Thallium by EPA Method 7000 series
V: Vanadium by EPA Method 7000 series
Zn: Zinc by EPA Method 7000 series

KIFF Analytical LLC

Report Number : 51299
Date : 08/03/2006

Scott Ferriman
Blue Rock Environmental, Inc.
535 3rd Street, Suite 100
Eureka, CA 95501

Subject : 9 Soil Samples and 10 Liquid Samples
Project Name : Beaver Lumber Soil Stockpile
Project Number : NC-1

Dear Mr. Ferriman,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 51299
Date : 08/03/2006

Subject : 9 Soil Samples and 10 Liquid Samples
Project Name : Beaver Lumber Soil Stockpile
Project Number : NC-1

Case Narrative

The liquid samples are Waste Extraction Test (WET) extracts of the soil samples. The WET was performed using deionized water as the extractant. The WET procedure was performed by Calscience Environmental Labs and the analysis of the extracts was performed by Kiff Analytical.

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 51299
Date : 08/03/2006

Project Name : **Beaver Lumber Soil Stockpile**
Project Number : **NC-1**

Sample : **S1-10-L** Matrix : Soil Lab Number : 51299-01
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (Silica Gel)	**380**	40	mg/Kg	M EPA 8015	08/02/2006
1-Chlorooctadecane (Silica Gel Surr)	80.2		% Recovery	M EPA 8015	08/02/2006

Sample : **S1-15-L** Matrix : Soil Lab Number : 51299-02
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (Silica Gel)	**130**	20	mg/Kg	M EPA 8015	08/02/2006
1-Chlorooctadecane (Silica Gel Surr)	72.4		% Recovery	M EPA 8015	08/02/2006

Sample : **S1-38-L** Matrix : Soil Lab Number : 51299-03
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (Silica Gel)	**270**	40	mg/Kg	M EPA 8015	08/02/2006
1-Chlorooctadecane (Silica Gel Surr)	80.2		% Recovery	M EPA 8015	08/02/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 51299
Date : 08/03/2006

Project Name : **Beaver Lumber Soil Stockpile**
Project Number : **NC-1**

Sample : **S1-42-L** Matrix : Soil Lab Number : 51299-04
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (Silica Gel)	**310**	40	mg/Kg	M EPA 8015	08/02/2006
1-Chlorooctadecane (Silica Gel Surr)	79.6		% Recovery	M EPA 8015	08/02/2006

Sample : **S2-5-L** Matrix : Soil Lab Number : 51299-05
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (Silica Gel)	**430**	40	mg/Kg	M EPA 8015	08/02/2006
1-Chlorooctadecane (Silica Gel Surr)	79.8		% Recovery	M EPA 8015	08/02/2006

Sample : **S2-14-L** Matrix : Soil Lab Number : 51299-06
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (Silica Gel)	**600**	40	mg/Kg	M EPA 8015	08/02/2006
1-Chlorooctadecane (Silica Gel Surr)	71.0		% Recovery	M EPA 8015	08/02/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 51299
Date : 08/03/2006

Project Name : **Beaver Lumber Soil Stockpile**
Project Number : **NC-1**

Sample : **S2-20-L** Matrix : Soil Lab Number : 51299-07
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (Silica Gel)	**300**	30	mg/Kg	M EPA 8015	08/02/2006
1-Chlorooctadecane (Silica Gel Surr)	92.8		% Recovery	M EPA 8015	08/02/2006

Sample : **S3-3-L** Matrix : Soil Lab Number : 51299-08
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (Silica Gel)	**150**	40	mg/Kg	M EPA 8015	08/02/2006
1-Chlorooctadecane (Silica Gel Surr)	76.4		% Recovery	M EPA 8015	08/02/2006

Sample : **S3-8-L** Matrix : Soil Lab Number : 51299-09
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (Silica Gel)	**460**	60	mg/Kg	M EPA 8015	08/02/2006
1-Chlorooctadecane (Silica Gel Surr)	70.4		% Recovery	M EPA 8015	08/02/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 51299
Date : 08/03/2006

Project Name : **Beaver Lumber Soil Stockpile**
Project Number : **NC-1**

Sample : **S1-10-L** Matrix : Liquid Lab Number : 51299-10
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	08/02/2006
Octacosane (Diesel Surrogate)	99.2		% Recovery	M EPA 8015	08/02/2006

Sample : **S1-15-L** Matrix : Liquid Lab Number : 51299-11
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	08/02/2006
Octacosane (Diesel Surrogate)	99.2		% Recovery	M EPA 8015	08/02/2006

Sample : **S1-38-L** Matrix : Liquid Lab Number : 51299-12
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	08/02/2006
Octacosane (Diesel Surrogate)	98.4		% Recovery	M EPA 8015	08/02/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 51299
Date : 08/03/2006

Project Name : **Beaver Lumber Soil Stockpile**
Project Number : **NC-1**

Sample : **S1-42-L** Matrix : Liquid Lab Number : 51299-13
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	08/02/2006
Octacosane (Diesel Surrogate)	103		% Recovery	M EPA 8015	08/02/2006

Sample : **S2-5-L** Matrix : Liquid Lab Number : 51299-14
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	08/03/2006
Octacosane (Diesel Surrogate)	101		% Recovery	M EPA 8015	08/03/2006

Sample : **S2-14-L** Matrix : Liquid Lab Number : 51299-15
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	08/03/2006
Octacosane (Diesel Surrogate)	102		% Recovery	M EPA 8015	08/03/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 51299
Date : 08/03/2006

Project Name : **Beaver Lumber Soil Stockpile**
Project Number : **NC-1**

Sample : **S2-20-L** Matrix : Liquid Lab Number : 51299-16
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	08/03/2006
Octacosane (Diesel Surrogate)	105		% Recovery	M EPA 8015	08/03/2006

Sample : **S3-3-L** Matrix : Liquid Lab Number : 51299-17
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (w/ Silica Gel)	**120**	100	ug/L	M EPA 8015	08/03/2006
Octacosane (Diesel Surrogate)	83.4		% Recovery	M EPA 8015	08/03/2006

Sample : **S3-8-L** Matrix : Liquid Lab Number : 51299-18
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	08/03/2006
Octacosane (Diesel Surrogate)	95.0		% Recovery	M EPA 8015	08/03/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 51299
Date : 08/03/2006

Project Name : **Beaver Lumber Soil Stockpile**
Project Number : **NC-1**

Sample : **Extraction Blank** Matrix : Liquid Lab Number : 51299-19
Sample Date :07/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	08/03/2006
Octacosane (Diesel Surrogate)	88.4		% Recovery	M EPA 8015	08/03/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 51299

Date : 08/03/2006

QC Report : Method Blank Data

Project Name : **Beaver Lumber Soil Stockpile**

Project Number : **NC-1**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Motor Oil (Silica Gel)	< 10	10	mg/Kg	M EPA 8015	08/01/2006
1-Chlorooctadecane (Silica Gel Surr)	98.0		%	M EPA 8015	08/01/2006
TPH as Motor Oil (Silica Gel)	< 10	10	mg/Kg	M EPA 8015	08/02/2006
1-Chlorooctadecane (Silica Gel Surr)	97.7		%	M EPA 8015	08/02/2006
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	08/02/2006
Octacosane (Diesel Surrogate)	104		%	M EPA 8015	08/02/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 51299

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 08/03/2006

Project Name : **Beaver Lumber Soil**

Project Number : **NC-1**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	51318-79	2.9	20.0	20.0	17.4	18.8	mg/Kg	M EPA 8015	8/1/06	75.8	82.2	8.07	60-140	25
TPH as Diesel	51318-35	3.2	20.0	20.0	21.8	25.6	mg/Kg	M EPA 8015	8/2/06	93.8	110	16.0	60-140	25
TPH as Diesel	Blank	<50	1000	1000	996	967	ug/L	M EPA 8015	8/2/06	99.6	96.7	3.02	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 51299

QC Report : Laboratory Control Sample (LCS)

Date : 08/03/2006

Project Name : **Beaver Lumber Soil**

Project Number : **NC-1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
TPH as Diesel	20.0	mg/Kg	M EPA 8015	8/1/06	95.4	70-130
TPH as Diesel	20.0	mg/Kg	M EPA 8015	8/2/06	92.6	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Calscience Environmental Laboratories, Inc.

August 03, 2006

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.:** **06-07-1420**
Client Reference: **Beaver Lumber Soil Stockpile**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/28/2006 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

The samples contained within this shipment and attached chain of custody were extracted in accordance with the California Code of Regulations Title 22, Section 11.5 using DI water. The extracts were then returned to Kiff Analytical.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

KIFF Analytical LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

Lab No. 1420

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Christie Dumas

EDF Report? ___ Yes _X_ No

Recommended but not mandatory to complete this section:

Company/Address: Kiff Analytical, LLC

Sampling Company Log Code:

Phone No.: FAX No.:

Global ID:

Project Number: NC-1 P.O. No.: 51299

EDF Deliverable to (Email Address):

Project Name: Beaver Lumber Soil Stockpile

E-mail address: inbox@kiffanalytical.com

Project Address:

Sample Designation	Sampling Date	Sampling Time	Container: Glass Jar	Container: Poly	Container: Sleeve	Container: Amber	Container: Tedlar	Preservative: Hcl	Preservative: HNO3	Preservative: Na2S2O3	Preservative: NONE	Preservative: ICE	Matrix: WATER	Matrix: SOIL	Matrix: Air	Analysis Request: WET by DI Extraction (extraction only)	Date due: August 3, 2006	For Lab Use Only
S1-10-L	7/26/06	13:10	1								1			X		X	X	
S1-15-L	7/26/06	13:25	1								1			X		X	X	
S1-38-L	7/26/06	13:50	1								1			X		X	X	
S1-42-L	7/26/06	14:05	1								1			X		X	X	
S2-5-L	7/26/06	14:15	1								1			X		X	X	
S2-14-L	7/26/06	14:30	1								1			X		X	X	
S2-20-L	7/26/06	14:40	1								1			X		X	X	
S3-3-L	7/26/06	14:55	1								1			X		X	X	
S3-8-L	7/26/06	15:20	1								1			X		X	X	

	Date	Time		
Relinquished by: [signature] Kiff Analytical	072606	1900	Received by:	
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date 7/26/06	Time 0900	Received by Laboratory: [signature]	

Remarks: Perform the extraction only, no analysis required. Please send 4 VOAs of each extract back to Kiff.

Bill to: Accounts Payable

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 06 - 07 - 1420

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiffr DATE: 7/28/06

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

4.0 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [signature]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Applicable (N/A): _____

Initial: [signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC		✓	
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: [signature]

COMMENTS:

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 51299

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Scott Ferriman	California EDF Report? ☐ Yes ☒ No
Company / Address: Blue Rock Env. Eureka	Sampling Company Log Code:
Phone #: 707-441-1934 Fax #: 707-441-1949	Global ID:
Project #: NC-1 P.O. #:	EDF Deliverable To (Email Address): Scott.blueRockEnv.com
Project Name: Beaver Lumber Soil stockpile	Sampler Signature:
Project Address: Airport Grange Ave. McKinleyville, CA	

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M) w/Silicagel	Total Lead (EPA 6010)	W.E.T. Lead (STLC)	WET/DI Extraction	TPHmo w/Silicagel on Extract	TAT: 1 wk	For Lab Use Only
S1-10-L	7/26/06	13:10				2				1		X														X			X		01
S1-15-L		13:25																								X			X		02
S1-38-L		13:50																								X			X		03
S1-42-L		14:05																								X			X		04
S2-5-L		14:15																								X			X		05
S2-14-L		14:30																								X			X		06
S2-20-L		14:40																								X			X		07
S3-3-L		14:55																								X			X		08
S3-8-L		15:20																								X			X		09

Relinquished by:	Date	Time	Received by:
	7/26/06		Fed Ex
	7/27/06	1040	Robby Kiff Analytical

Remarks: Please run TPHmo's (soil + Extract) on Same GC, thanks SF

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
5.2	FMH	072706	1028	IR5	(Yes) / No

Distribution: White - Lab; Pink - Originator
Rev: 051805

KIFF Analytical LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

Lab No. 1420

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Christie Dumas

EDF Report? ___ Yes _X_ No

Company/Address: Kiff Analytical, LLC

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Phone No.: FAX No.:

Global ID:

Project Number: NC-1

P.O. No.: 51299

EDF Deliverable to (Email Address):

Project Name: Beaver Lumber Soil Stockpile

E-mail address: inbox@kiffanalytical.com

Project Address:

Analysis Request

Date due: August 3, 2006

Sample Designation	Sampling Date	Sampling Time	Container: Glass Jar	Poly	Sleeve	Amber	Tedlar	Preservative: Hcl	HNO3	Na2S2O3	NONE	ICE	Matrix: WATER	SOIL	Air	WET by DI Extraction (extraction only)								For Lab Use Only	
S1-10-L	7/26/06	13:10	1								1			X		X								X	1 -10
S1-15-L	7/26/06	13:25	1								1			X		X								X	2 -11
S1-38-L	7/26/06	13:50	1								1			X		X								X	3 -12
S1-42-L	7/26/06	14:05	1								1			X		X								X	4 -13
S2-5-L	7/26/06	14:15	1								1			X		X								X	5 -14
S2-14-L	7/26/06	14:30	1								1			X		X								X	6 -15
S2-20-L	7/26/06	14:40	1								1			X		X								X	7 -16
S3-3-L	7/26/06	14:55	1								1			X		X								X	8 -17
S3-8-L	7/26/06	15:20	1								1			X		X								X	9 -18

SAMPLE RECEIPT
Temp °C: 0.4 Therm. ID#: ERS
Initial: PMH Date: 080206
Time: 0905 Coolant present: Yes / No

Relinquished by:	Date	Time	Received by:
[illegible] W TG - Kiff Analytical	080206	1900	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	7/31/06	0900	

Remarks: Perform the extraction only, no analysis required. Please send 4 VOAs of each extract back to Kiff.

Bill to: Accounts Payable

Relinquished By: 7/31/06 1600 080201 0905 Kiff Analytical